



SEQUENCE LISTING

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<120> NOVEL COMPOSITIONS AND METHODS FOR CONTROLLING THE EXTENDABILITY
OF VARIOUS COMPONENTS USED IN COPYING OR AMPLIFICATION STEPS

<130> Enz-60 (CIP)

<140> 10/693,481

<141> 2003-10-24

<150> 09/896,897

<151> 2001-06-30

<160> 57

<170> PatentIn version 3.5

<210> 1

<211> 44

<212> DNA

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bacteriophage T7 Promoter with a C9 3' Tail

<400> 1

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44

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bacteriophage T7 Promoter with a T25 3' Tail

<400> 2

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60

t

61

<210> 3

<211> 61

<212> DNA

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<220>

<223> Description of Artificial Sequence: Synthetic
bacteriophage T3 Promoter with a T25 3' Tail

<400> 3
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<210> 4
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<220>
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 primer

<400> 4
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<210> 5
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 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 5
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<210> 6
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 6
 tttttttttt tttttttttt ttta 24

<210> 7
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 7
 tttttttttt tttttttttt tttc 24

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<210> 8
<211> 25
<212> DNA
<213> Artificial Sequence
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<220>
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<221> modified_base
<222> (25)..(25)
<223> a, c, t or g
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<400> 8
ttttttttttt tttttttttt tttvn
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<210> 9
<211> 63
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic primer

[illegible]

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<210> 10
<211> 63
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<220>
<223> Description of Artificial Sequence: Synthetic primer

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<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic
primer
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ggccagtgaa ttgtaatacg actcactata gggaggcggt tttttttttt tttttttttt      60  
ttu                                          63
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<210> 11
<211> 63
<212> DNA
<213> Artificial Sequence
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<220>

<223> Description of Artificial Sequence: Synthetic primer

 $\langle 220 \rangle$

<223> Description of Combined DNA/RNA Molecule: Synthetic primer

<400> 11

ggccagtqaa ttgtaatacg actcactata gggaggcggt tttttttttt tttttttttt 60

uuu

63

<210> 12

<211> 63

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

 $\langle 220 \rangle$

<223> Description of Combined DNA/RNA Molecule: Synthetic primer

<400> 12

gqccagtqaa ttgtaatacg actcactata gggaggcggt tttttttttt tttttttttt 60

tuu

63

<210> 13

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 13

୧୧୧୧୧୧୧୧୧୧ ୧୧ 12

<210> 14

<211> 750

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 14

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	180
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	240
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	300
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	360
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	420
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	480
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	540
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	600
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	660
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	720
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa	750

<210> 15
 <211> 1000
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 polynucleotide

<400> 15	
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	60
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	240
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	300
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	360
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	420
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	480
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	540
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	600
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	660

aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	720
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	780
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	840
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	900
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa			1000

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<210> 16
<211> 1400
<212> RNA
<213> Artificial Sequence
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<223> Description of Artificial Sequence: Synthetic polynucleotide

[illegible]

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	1260
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	1320
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	1380
aaaaaaaaaa aaaaaaaaaa	1400

<210> 17
 <211> 2000
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 polynucleotide

<400> 17	
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	360
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	420
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	480
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	660
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	720
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	840
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	900
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	960
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	1020

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	1080
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	1140
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	1200
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	1860
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	1980
aaaaaaaaa aaaaaaaaaa	2000

<210> 18
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<220>
 <223> Description of Combined DNA/RNA Molecule: Synthetic
 oligonucleotide

<400> 18
 uuuuuuuuuu uuuuuuuuuu uuuuuuuuuu tt

32

<210> 19
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<220>
 <223> Description of Combined DNA/RNA Molecule: Synthetic
 oligonucleotide

<400> 19
 uuuuuuuuuuu uuuuuuuuuuu uuuuutt 26

<210> 20
 <211> 24
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 20
 uuuuuuuuuuu uuuuuuuuuuu uuuuu 24

<210> 21
 <211> 49
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 21
 ggccagtgaatgttaatacgtactactatagggagggcggggggggggggggg 49

<210> 22
 <211> 17
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<220>
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 oligonucleotide

<400> 22
 uuuuuuuuuuu uuuuutt 17

<210> 23
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 23
tgacggggtg ac 12

<210> 24
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 24
gtcaccctgt caag 14

<210> 25
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 25
gtcaccctgt caaa 14

<210> 26
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 26
gtcaccctgt caac 14

<210> 27
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 27
gtcaccccgt catg 14

<210> 28
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 28
gtcaccccgt caga 14

<210> 29
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 29
gtcaccccgt cacc 14

<210> 30
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 30
gtcaccccgt cact 14

<210> 31
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 31
gtcaccccgt catt 14

<210> 32
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 32
gtcaccgccgt cagt 14

<210> 33
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 33
gtcaccgccgt caca 14

<210> 34
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 34
gtcaccgccgt catc 14

<210> 35
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 35
gtcaccgccgt cagg 14

<210> 36
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 36
gtcaccccgt cacg 14

<210> 37
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 37
gtcaccccgt cagc 14

<210> 38
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 38
gtcaccccgt caat 14

<210> 39
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 39
gtcaccccgt cata 14

<210> 40
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 40
gtcaccccggt cacgg 15

<210> 41
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 41
gtcaccccggt cacga 15

<210> 42
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 42
gtcaccccggt cacgt 15

<210> 43
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 43
gtcaccccggt cacgc 15

<210> 44
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 44
gtcaccccggt caatg 15

<210> 45
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
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<400> 45
gtcaccccggt caata 15

<210> 46
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
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<400> 46
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<210> 47
<211> 15
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<213> Artificial Sequence

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oligonucleotide

<400> 47
gtcaccccggt caatc 15

<210> 48
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 48
gtcaccccggt cagcg 15

<210> 49
<211> 15
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<213> Artificial Sequence

<220>
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oligonucleotide

<400> 49
gtcaccccggt cagca 15

<210> 50
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 50
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<210> 51
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 51
gtcaccccggt cagcc 15

<210> 52
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 52
gtcaccccggt catag 15

<210> 53
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 53
gtcaccccggt cataa 15

<210> 54
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
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<400> 54
gtcaccgccgt catat 15

<210> 55
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 55
gtcaccgccgt catac 15

<210> 56
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 56
tttttttttt tttttttttt tttt 24

<210> 57
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 57
tttttttttt tttttttttt t 21